Technical Notes

Viewing a map from a Web Map Service (WMS) Capabilities file

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Issue

Many mapping services are now publishing a Web Map Service (WMS) Capabilities file, which you need a map viewer to preview the maps. This technical note discusses two options for viewing the layers within a WMS map service by loading the capabilities file into a public domain map viewer.

I. Overview

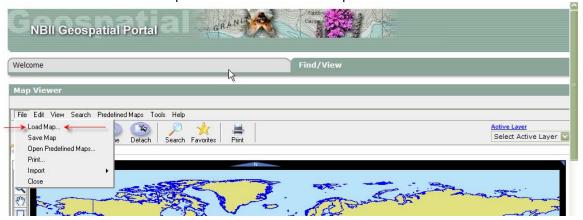
A WMS capabilities file is an XML document that describes the capabilities and layers available for a WMS map service. This WMS capabilities file is very similar to an ArcIMS AXL file, but that the WMS capabilities file is software independent and can be opened using a map viewer that works on the Open Geospatial Consortiums (OGC) specifications for WMS. This paper details the steps necessary to open a WMS in two available open viewers: The NBII's Open Map Viewer and the Geospatial One Stop Map Viewer.

II. Loading into NBII's Open Map Viewer

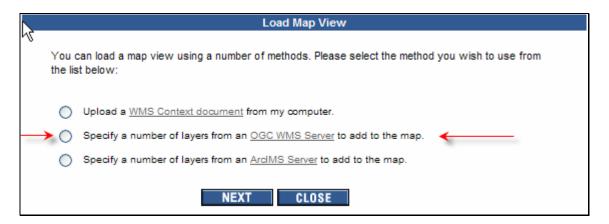
- ▶ Open a browser and go to: http://nbii-catalog.ornl.gov
- ▶ Click on the Find/View tab



▶Click on the File Menu option and select Load Map



- ▶You will get a popup. Make sure your browser accepts pop-up windows from this site.
- ► Select < specify a number of layers form an OGC WMS Server to add to the map > and click on the next button



▶ Paste the Capabilities URL into the field provided, and click on the next button

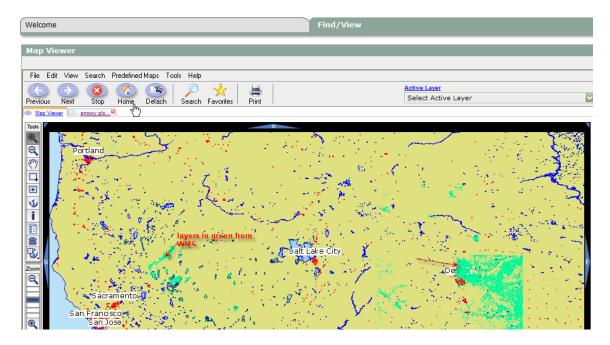


Special NOTE: This URL can be found in the NBII metadata record in the relation field as the WMS capabilities is a related URL of the mapping application. CRISIS Maps Weed Map and Data Server summary Description: CRISIS Maps is an interactive map display and data viewer for invasive weed observations in the regions of California and the Southwest, developed by the California Information Node of the National Biological Information Infrastructure. The weed... Creator: Information Center for the Environment, UC Davis, California Information Node, National Biological Information Infrastructure Publisher: Information Center for the Environment, UC Davis Controlled Subject: Invasive species, Mapping Resource Identifier: http://cain.nbii.org/crisis/crisismaps Resource Type: Databases and Information Systems, Internet Map Services Format: Interactive Mapping Language(s): English Rights Management: Copyright held by Publisher Cataloguing Node: California Information Node Relation: http://cain.nbii.gov/cgi-bin/mapserv? map=/var/www/html/cain/crisis/crisismaps/wmsspecies.map&request=GetCapabilities

► Select the check boxes for the layers you would like to see, and click on the << Add these layers to the Map>> button.



Voila... you should be able to see the maps (if the service is working). There are times when the map services will not always respond. If at first you don't succeed, try again a bit later. Distributed mapping sometimes takes patience!



You can now save the map as a XML file called a Map Context Document and store on your computer, or send in an email. The map context document will retain the layers you loaded and the zoom of the map, and if the map viewer allows it, it will also retain any annotations you have created. This Map Context Document can be opening in an Open Map Viewer such the one show here.

II. Loading into the Geospatial One Stop's Open Map Viewer

▶http://www.geodata.gov



▶ Click on the Maps Tab. Select one of the Maps to start the map viewer. I normally use the National Map.

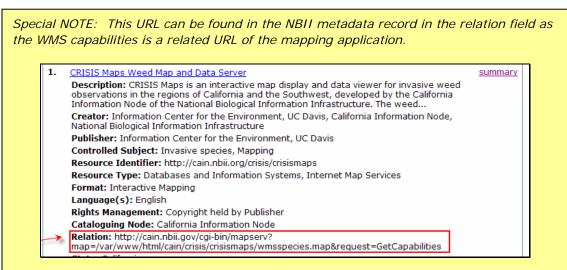


►Click on the icon. (a Plus sign with yellow) and you will get a popup. Ensure you can receive pop-ups from this site.

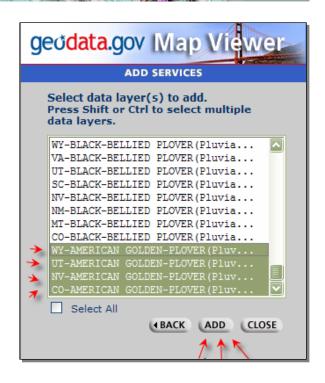


▶In the Field labeled map server URL, enter the URL to the capabilities file.

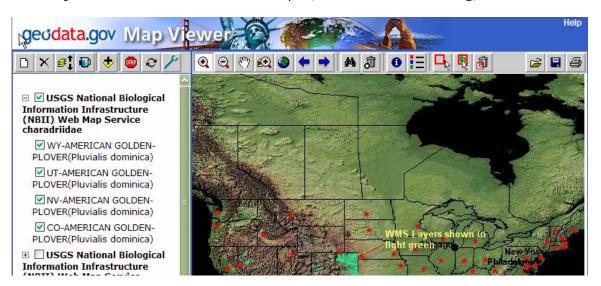




►Once you enter a valid WMS capabilities URL, you will then get a list of the layers within the map. Pick one or all, and click on the add button.



Voila... you should be able to see the maps (if the service is working)



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For More Information:

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